# CITY OF MOUNTAIN VIEW

SFUND RECORDS CTR 2807-91347

# APPLICATION FOR INDUSTRIAL WASTES DISCHARGE PERMIT

Address of Point of Oischarge Special Magnetian Peak Hourity Address of Point of Discharge Special Peak Hourity And Nature 115, 100 mg/l Hydrogen Ion content pil Special Peak Hourit Protein of Discharge Special Provided	Date	June 1, 1983				No.	SFUND RECORDS CTR 88171522
Address 350 Ellis Street, Mountain View, CA. 9403 Address of Point of Discharge 350 Ellis Street (1.0. South) Individual Pesponsible Name M. Ohm, Environmental Cacadinator Telephone I Individual Pesponsible Name M. Ohm, Environmental Cacadinator Attach Map Showing Point of Discharge. Sampling Points, and Maste Treatment Facility  B. Flow Rate: Average 150,000 gals/day Max. 175,000 gals/day Peak Hourly 200 GPM  C. Submit separate statements 1. Letailing type of industry and nature of products 2. Listing chemicals used and approximate concentrations 3. Describing waste treatment facilities 4. Giving characteristics of exceptional industrial wastes 5. Concerning radioactive wastes 6. Naming organic solvents discharged and concentration at point of discharge  D. Indicate the point of discharge concentration of the following characteristics and mass emission rates where applicable.  Biochemical oxygen demand (8.0.D.) 400 mg/l Grease and oil, total Chemical oxygen demand (C.0.D.) 1,000 mg/l Hydrogen ion content pH  Total Solids, Average 1,000 mg/l Temperature 200 mg/l  Total Solids, Average 1,000 mg/l Temperature 200 mg/l  Arsenic 9.05 Cyanides 2.5 Pornaldehyde 2.5 Solids Masse Allowable Mass Allowable Emission Rate kg/day  Arsenic 9.05 Cyanides 0.5 Solids Managenese 9.5 Chronium Hexavalent 0.5 Nickel 0.5 Chronium Total 1.0 Phenols 0.5 Solidinum 1.0 Cobalt 0.5 Solidinum 1.0 So	۸ .	Name or Organization	Raytheon	Company			
Address of Point of Discharge   Alloward   A		Address 350 Ellis	Street. M	ountain View.	CA 94043		
Individual Pesponsible for Industrial Maste for Industrial Maste Attach Map Showing Point of Discharge. Sampling Points, and Waste Treatment Pacility  B. Flow Rate: Average 150,000 gals/day B. Flow Rate: Average 1				0 Ellis Street	(1.D. Sout	<u>h) </u>	
Tor Industrial Maste Signature Attach Map Showing Point of Discharge. Sampling Points, and Waste Treatment Facility  B. Flow Rate: Average 150,000 gals/day Max. 175,000 gals/day Peak Hourly 200 GPM  C. Submit separate statement:  1. betailing type of industry and nature of products 2. Listing chemicals used and approximate concentrations 3. Describing waste treatment facilities 4. Giving characteristics of exceptional industrial wastes 5. Concerning radioactive wastes 6. Naming organic solvents discharged and concentration at point of discharge  D. Indicate the point of discharge concentration of the following characteristics and mass emission rates where applicable.  Biochemical oxygen demand (B.O.D.) 400 mg/l Grease and oil, total Solids, Average 1,000 mg/l Pluoride 5.0 mg/l Total Solids, Average 1,000 mg/l Temperature 5.0 mg/l Suspended Solids, Average 1,000 mg/l Temperature 7.000 mg/l Emission Rate Mg/day 8.  Arsenic 0.05			Mama II	Ohm. Environm	ental Coord	inator	Telephone •
Attach Map Showing Point of Discharge, Sampling Points, and Waste Treatment Facility  B. Flow Rate: Average 150,000 gals/day Max. 175,000 gals/day Peak Bourly 200 GPM  C. Submit separate statement:  1. Letailing type of industry and nature of products 2. Listing chemicals used and approximate concentrations 3. Describing waste treatment facilities 4. Giving characteristics of exceptional industrial wastes 5. Concerning radioactive waster treatment facilities 6. Naming organic solvents discharge concentration at point of discharge  D. Indicate the point of discharge concentration of the following characteristics and mass emission rates where applicable.  Biochemical oxygen demand (B.O.D.) 400 mg/l Bydrogen Ion content pH Total Solids, Average 1,000 mg/l Hydrogen Ion content pH Total Solids, Average 1,000 mg/l Temperature 1200 mg/l Suspended Solids, Average 1,000 mg/l Temperature 1200 °F  Max. Conc. Allowable Hass Allowable Emission Rate Barium 2.5 Formaldehyde 1,5 Emission Rate Barium 2.5 Formaldehyde 1,5 Emission Rate Beryllium 0.5 Lead 0.15  Beryllium 0.5 Lead 0.15  Boron 0.5 Manganese 0,5  Chromium Hexavalent 0.5 Nickel 0.5  Chromium Hexavalent 0.5 Selenium 1.0  Choolium 0.05 Selenium 1.0  Copper 1.0 Silver 2.5  Copper 1.0 Silver 2.5  Copper 1.0 Silver 2.5  NOT TO BE COMPLETED BY APPLICANT  Permit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions  Maintenance Director Date  Permit to Discharge Exceptional Industrial Wastes Approved	,	for Industrial Waste	Signature	Juntural 0	line		
B. Flow Rate: Average 150,000 gals/day Max. 115,000 gals/day Peak Hourly 200 CPM  C. Submit separate statement:  1. Letailing type of industry and nature of products 2. Listing chemicals used and approximate concentrations 3. Describing wasteristics of exceptional industrial wastes 4. Governing radioactive wastes 6. Naming organic solvents discharged and concentration at point of discharge  D. Indicate the point of discharge concentration of the following characteristics and mass emission rates where applicable.  Biochemical oxygen demand (B.O.D.) 400 mg/l Grease and oil, total Chemical oxygen demand (B.O.D.) 1,000 mg/l Hydrogen Ion content pH Total Solids, Average T,500 mg/l Fluoride Temperature    Name		Attach Map Showing Poi	int of Dischar	rge, Sampling Poin	ts, and Waste T	reatment Fac	ility
C. Submit separate statement:  1. Letailing type of industry and nature of products 2. Listing chemicals used and approximate concentrations 3. Describing waste treatment facilities 4. Giving characteristics of exceptional industrial wastes 5. Concerning radioactive wastes 6. Naming organic solvents discharged and concentration at point of discharge  D. Indicate the point of discharge concentration of the following characteristics and mass emission rates where applicable.  Biochemical oxygen demand (B.O.D.) 400 mg/l Grease and oil, total Chemical oxygen demand (C.O.D.) 1,000 mg/l Hydrogen Ion content pH  Total Solids, Average 1,000 mg/l Fluoride 5.5/10 mg/l  Suspended Solids, Average 1,000 mg/l Temperature 5.5/10 mg/l  Allowable Emission Rate Emission Rate Emission Rate Reg/l mg/l  Arsenic 0.05 Cyanides 0.5  Barium 2.55 Formaldehyde 2.5  Beryllium 0.5 Lead 0.25  Beryllium 0.5 Lead 0.25  Beryllium 0.5 Lead 0.25  Chomium Hexavalent 0.5 Nickel 0.5  Chromium Hexavalent 0.5 Selenium 1.0  Cobalt 0.5 Selenium 1.0  Cobalt 0.5 Selenium 1.0  Copper 1.0 Silver 2.5  Formal Competency 1.0 Silver 2.5  Formit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions  Permit to Discharge Exceptional Industrial Waste Approved							
1. Letailing type of industry and nature of products 2. Listing chemicals used and approximate concentrations 3. Describing waste treatment facilities 4. Concerning radioactive wastes 6. Naming organic solvents discharged and concentration at point of discharge 6. Naming organic solvents discharged and concentration at point of discharge 7. Indicate the point of discharge concentration of the following characteristics and mass emission rates where applicable.  8. Biochemical oxygen demand (B.O.D.) 400 mg/l Grease and oil, total 1.000 mg/l Hydrogen Ion content pH 1.000 mg/l Hydrogen Ion content pH 1.000 mg/l Fluoride 1.000 mg/l Fluoride 1.000 mg/l Fluoride 1.000 mg/l Temperature 1.000 mg/l Temperature 1.000 mg/l mg/l Suspended Solids, Average 1.000 mg/l Temperature 1.000 mg/l mg/l content pH 1.000 mg/l mg/l Temperature 1.000 mg/l mg/l mg/l content pH 1.000 mg/l mg/l mg/l content mg/l content mg/l content mg/l mg/l content mg/l content mg/l mg/l content m	в.	Flow Rate: Average	150,000 gals	s/day Max. <u>175</u>	000 gals/day	Peak Hour	1у _200 GPM
2. Listing chemicals used and approximate Concentrations 3. Describing waste treatment facilities 4. Giving characteristics of exceptional industrial wastes 5. Concerning radioactive wastes 6. Naming organic solvents discharged and concentration at point of discharge  D. Indicate the point of discharge concentration of the following characteristics and mass emission rates where applicable.  Biochemical oxygen demand (B.O.D.) 400 mg/l Grease and oil, total 200 mg/l Chemical oxygen demand (C.O.D.) 1,000 mg/l Hydrogen Ion content pH 5.5.5/10 Total Solids, Average 7,500 mg/l Fluoride 5.0 mg/l Suspended Solids, Average 1,000 mg/l Temperature 120 °p  Max. Conc. Allowable mg/l Temperature Max. Conc. Allowable Emission Rate kg/day mg/l Arsenic 0.05 Cyanides 0.5 Barium 2.5 Formaldehyde 2.5 Beryllium 0.5 Lead 0.25 Beryllium 0.5 Lead 0.25 Beryllium 0.5 Lead 0.25 Boron 0.5 Manganese 0.5 Cadmium Chromium Hexavalent 0.5 Nickel 0.5 Chromium Total 1.0 Phenols 0.5 Chromium Total 1.0 Selenium 1.0 Cobalt 0.5 Selenium 1.0 Copper 1.0 Silver 2.5 Cresols 1.0 Silver 2.5  NOT TO BE COMPLETED BY APPLICANT  Permit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions  Maintenance Director Date  Permit to Discharge Exceptional Industrial Wastes Approved	c.						
3. Describing waste treatment facilities 4. Giving characteristics of exceptional 5. Concerning radioactive wastes 6. Naming organic solvents discharged and concentration at point of discharge  D. Indicate the point of discharge concentration of the following characteristics and mass emission rates where applicable.  Biochemical oxygen demand (B.O.D.) 400 mg/l Grease and oil, total 5.5/10 mg/l Hydrogen Ion content pH 5.5/10 mg/l Fluoride 7.500 mg/l Fluoride 7.50		1. Detailing type of	industry and	nature of product	s tions		
4. Giving characteristics of exceptional industrial wastes 5. Concerning radioactive wastes 6. Naming organic solvents discharged and concentration at point of discharge  5. Concerning radioactive wastes 6. Naming organic solvents discharged and concentration at point of discharge  6. Naming organic solvents discharged and concentration at point of discharge  7. Discharge and concentration of the following characteristics and mass emission rates where applicable.  8. Discharge and only total concentration of the following characteristics and mass emission rates where applicable.  8. Discharge and only total concentration of the following characteristics and mass emission rates where applicable.  8. Discharge and only total concentration of the following characteristics and mass emission rates and only total concentration of the following characteristics and mass emission rates and only total concentration of the following characteristics and mass emission rates and only total concentration of the following characteristics and mass emission rates and only total concentration of the following characteristics and mass emission rates and only total concentration of the following characteristics and mass emission rates and only total concentration may be described by a part of the following characteristics and mass emission rates and only total concentration may be described by a part of the following characteristics and mass emission rates and only total concentration may be described by a part of the following characteristics and only total concentration of the following characteristics and only total concentration of the following characteristics and only total concentration and mass emission rates and oil, total concentration may be described by a part of the following characteristics and oil, total concentration mass emission rates and oil, total concentration may be described by a part of the following concentration may be described by a part of the following concentration of the following concentration and oi		2 Paggribing Waste	treatment faci	ilities			
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D. Indicate the point of discharge concentration of the following characteristics and mass emission rates where applicable.  Biochemical oxygen demand (B.O.D.) 400 mg/l Grease and oil, total 5.500 mg/l Hydrogen Ion content pH 5.500 mg/l Fluoride 5.55/10 5.50 mg/l Fluoride 5.55/10 mg/l Fluoride 5.50 mg/l 120 % mg/l Temperature	•	6. Naming organic so	lvents dischar	rged and concentra	tion at point of	of discharge	
Biochemical oxygen demand (B.O.D.)   400 mg/l   1,000 m	_						
Biochemical oxygen demand (B.O.D.)   400 mg/l   Grease and oil, total   200 mg/l	D.	Indicate the point of	discharge co	ncentration of the	following char	racteristics	and mass emission
Blochemical oxygen demand (C.O.D.)  Chemical oxygen demand (C.O.D.)  Total Solids, Average  Suspended Solids, Average    1,000 mg/l Pluoride   120 op		rates where applicabl	e.				200
Total Solids, Average		Biochemical oxygen de	mand (B.O.D.)			and the second s	
Name		Chemical oxygen deman	d (C.O.D.)		-	content pH	
Max. Conc. Allowable Mass Emission Rate mg/l   Max. Conc. Allowable Mass Emission Rate mg/l   Max. Conc. Allowable Mass   Mallowable Mass   Max. Conc. Allowable Mass   Mallowable Mass   Mallowable Mass   Mallowable Mass   Mallowable Mass   Mallowable Mass   Mallowable Mass   Max. Conc. Allowable Mass   Mallowable Mass   Mallow		Total Solids, Average	•				
Arsenic		Suspended Solids, Ave	rage	_1,000 mg/1	Temperature		
Allowable mg/l Emission Rate kg/day  Arsenic			May Conc	Allowable Mass	•		
Arsenic			Allowable	Emission Rate			
Barium 2.5 Formaldehyde 2.5  Beryllium 0.5 Lead 0.25  Boron 0.5 Manganese 0.5  Cadmium 0.05 Mercury 0.025  Chromium Hexavalent 0.5 Nickel 0.5  Chromium Total 1.0 Phenol's 0.5  Cobalt 0.5 Selenium 1.0  Copper 1.0 Silver 2.5  Cresols 1.0 Zinc 2.5  NOT TO BE COMPLETED BY APPLICANT  Permit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions  Maintenance Director Date  Permit to Discharge Exceptional Industrial Waste Approved			mg/l	kg/day			
Beryllium 0.5 Lead 0.25  Boron 0.5 Manganese 0.5  Cadmium 0.05 Mercury 0.025  Chromium Hexavalent 0.5 Nickel 0.5  Chromium Total 1.0 Phenol's 0.5  Cobalt 0.5 Selenium 1.0  Copper 1.0 Silver 2.5  Cresols 1.0 Zinc 2.5  NOT TO BE COMPLETED BY APPLICANT  Permit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions  Maintenance Director Date  Permit to Discharge Exceptional Industrial Waste Approved		Arsenic					
Boron  Cadmium  O.05  Mercury  O.025  Chromium Hexavalent  O.5  Chromium Total  I.0  Phenols  Cobalt  Copper  I.0  Silver  Cresols  Not To BE COMPLETED BY APPLICANT  Permit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions  Maintenance Director  Date  Permit to Discharge Exceptional Industrial Waste Approved		Barium			Formaldehyde		
Cadmium  Cadmium  Chromium Hexavalent  Chromium Total  Cobalt  Cobalt  Copper  Cresols  Cresols  Complement  Copper  Cresols  Not to be completed by Application  Not to be completed by Application  Maintenance Director  Permit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions  Maintenance Director  Date  Permit to Discharge Exceptional Industrial Waste Approved	• .	Beryllium		<del></del>			
Cadmium  Chromium Hexavalent  O.5  Chromium Total  O.5  Cobalt  O.5  Selenium  O.5  Copper  O.5  Cresols  NOT TO BE COMPLETED BY APPLICANT  Permit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions  Maintenance Director  Permit to Discharge Exceptional Industrial Waste Approved	4.	Boron			Manganese		
Chromium Total  Chromium Total  Cobalt  Copper  Copper  Cresols  NOT TO BE COMPLETED BY APPLICANT  Permit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions  Maintenance Director  Permit to Discharge Exceptional Industrial Waste Approved		Cadmium	0.05				
Cobalt Copper Copper Copper Cresols  NOT TO BE COMPLETED BY APPLICANT  Permit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions  Maintenance Director  Date  Permit to Discharge Exceptional Industrial Waste Approved		Chromium Hexavalent	0.5_				
Copper Cresols  1.0  Silver 2.5  Inc  NOT TO BE COMPLETED BY APPLICANT  Permit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions  Maintenance Director  Date  Permit to Discharge Exceptional Industrial Waste Approved		Chromium Total					
Cresols  1.0  Zinc  2.5  NOT TO BE COMPLETED BY APPLICANT  Permit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions  Maintenance Director  Date  Permit to Discharge Exceptional Industrial Waste Approved		Cobalt	0.5		Selenium		
NOT TO BE COMPLETED BY APPLICANT  Permit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions  Maintenance Director  Date  Permit to Discharge Exceptional Industrial Waste Approved		Copper	1.0		Silver		
Permit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions  Maintenance Director  Date  Permit to Discharge Exceptional Industrial Waste Approved		Cresols	1.0		Zinc	2.5	
Permit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions  Maintenance Director  Date  Permit to Discharge Exceptional Industrial Waste Approved							
Maintenance Director  Permit to Discharge Exceptional Industrial Waste Approved			NC NC	OT TO BE COMPLETED	BY APPLICANT		
Permit to Discharge Exceptional Industrial Waste Approved		Perm Appli	it to Dischard cation Subject	ge Industrial Wast t to Attached Gene	es in Accordanceral and Specifi	e with This	
Permit to Discharge Exceptional Industrial Waste Approved		Maintenance Director		<del></del>		Date	
	:-						
	Pe	rmit to Discharge Exce	ptional Indus	trial Waste Approv	red		

Maintenance Director

348

Date



### **BROWN AND CALDWELL**

CONSULTING ENGINEERS
ANALYTICAL SERVICES DIVISION

1255 POWELL STREET EMERYVILLE, CA 94608 PHONE (415) 428-2300 Log No. E83-5-27-1

Date Sampled 5/2-3/83
Date Received 5/3/83
Date Reported 5/18/83

Page 1 of 2

Mr. Manfred Ohm Raytheon Company 350 Ellis Street

Reported To: 350 Ellis Street

Mountain View, California 94042

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Sandal Director

Log No. 5-27-1 5/2-3/83, 24-hour 5-27-2 5/2/83, Grab, 12:	Composite	. 12:30 p.m.	e Description - 12:30 p.m	., South Ef	fluent	
	20 b.m., 20	outh Effluen	τ			
Concentra	tion: mg/L	(unless oth	erwis <b>e</b> indic	ated)		
	5-27-1	5-27-2				
pH (units)	6.1					
Biochemical Oxygen Demand	310					
Chemical Oxygen Demand	450	****				- 1 :
Total Solids (percent)	0.15					
iotal Suspended Solids	11					
Temperature °F	58					
Oil and Grease		< 5				
fluoride	113					
Cyanide	< 0.02					
Phenols .	9.4					
Formaldehyd <b>e</b>	0.78					
Ammonia Nitrogen (as N)	31					
Boron	0.17					
Arsenic	0.001					
Barium	< 0.4					

Mr. Manfre: Ohm Raytheon Company Log No. E83-5-27

Date Reported 5-18-83

Page \_\_\_\_ of \_\_\_2

	Concentrati	on: mg/L			
	5-27-1	5-27-2	The state of the s		
Beryllium	< 0.01	9000			
Cadmium	< 0.01				
Chromium, hexavalent	< 0.01				•
Chromium, total	< 0.01	****			
balt	< 0.02				
Copper	0.01				
Lead	< 0.1				
Manganese	< 0.01				
Mercury	< 0.0001				
Nickel /	< 0.02				·
Selenium	0.006			<del></del>	·
Silver	0.03				
<sup>7</sup> inc	0.02				
			-		
	, _				
	<del></del>				



CC.

#### **BROWN AND CALDWELL**

CONSULTING ENGINEERS
ANALYTICAL SERVICES DIVISION
1255 POWELL STREET
EMERYVILLE, CA 94608
PHONE (415) 428-2300

Log No. E83-5-69

Date Received 5/5-6/83

Date Reported 5/17/83

Mr. Manfred Ohm
Raytheon Company
Reported To: 350 Ellis Street

Mountain View, California 94042

Leboratory Director

Log No.

9-1 North Effluent, Composite

9-2 South Effluent, Composite

Concentration: mg/L 5-69-1 5-69-2 Biochemical Oxygen Demand 244 fluoride 83 81



# **BROWN AND CALDWELL**

CONSULTING ENGINEERS
ANALYTICAL SERVICES DIVISION
1255 POWELL STREET
EMERYVILLE, CA 94608
PHONE (415) 428-2300

Log No. E83-5-98

Date Received 5/9-10/83

Date Reported 5/10/83

Mr. Manfred Ohm
Raytheon Company
350 Ellis Street

Reported To:

Mountain View, California 94042

Laboratory Director

Log No.	24-HOUR COMPOSITE							
78-1	North Effluent							
8-2	South Effluent		<del></del>				<u> </u>	
					· · · · · · · · · · · · · · · · · · ·			
		Concentra	tion: mg/L					
		5-98-1	5-98-2			-		
Fluoride		109	70					
-								